

C. S. H. - Nat. Herb.

A. S. Hitchcock
British Guiana
1919-1920

Collections other than grasses



A. S. Hitchcock, British Guiana

Wild land in Botanic Garden, Georgetown, Oct. 25, 1919.

- 16529. Stem upright, 8-10 ft. Fruit oblong, green, $4 \times 2\frac{1}{2}$ inches.
Swamp. Mucka-mucka.
- 16530. Shrub, up to 15 ft., stems slender; flowers yellow; specimens show flowers and young leaves and fruit and old leaves.
Low ground in jungle, near water.
- 16531. Woody vine, fruit black. Swampy jungle.
- 16532. In water of canal. In mosses, submerged, the pale lilac or nearly white flowers emerged.
- 16533. Floating, free, in water of canal
- 16534. Shrub up to 6 ft. tall; fruit yellow, pulp black, sweetish.
Jungle, near water.
- 16535. Shrub up to 8 ft. Flowers white in spike-like racemes.
Jungle, near water.
- 16536. Shrub, more or less climbing or trailing; flowers white or pale yellow, the tube yellowish green or purplish, (flowers drying yellow). Low ground.
16537. In water of canal, *A. grass.*
- 16538. Vegetative part floating in water of canal or imbedded in mud near water; flowers yellow.
- 16539. Shoots branched, floating, submerged, in water of canal; flowers yellow.
- 16540. Floating on surface of water of canal.
- 16541. Shrubby, up to 8 ft. tall; flowers lilac. Low ground in jungle.

16542. Shrub or small tree, 4-25 ft; fruit black. Low ground in jungle.
16543. Grassy places along canal. White in flower, turning light brown in fruit.
16544. Dissected leaves floating submerged, a few oval entire leaves at end of shoot, floating on surface; flowers yellow. In water of canal.
16545. Small tree, up to 25 ft; flowers creamy white. Low ground of jungle.
- 16546 Shrub, stem white, slender, 10-15 ft. tall; flowers yellow, odorless. Low gr. of jungle.
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Wild ground in Botanic Garden, Georgetown. Oct. 26, 1919.

16553. Fls. yellow. Along canal.
16555. Fls. blue. In water of canal.
16556. Floating on surface of water of canal.
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Georgetown- Sea beach and vicinity, east of Sea Wall. Oct. 29, 1919.

16557. Shrub, 8 ft; fls. yellow. Waste land back of beach.
16558. In water of canal.
16559. Muddy bank of canal.
16560. Corolla red, anthers, etc. yellow. Grassy ground in young coconut plantation.
16561. Muddy bank of canal.
16562. Tree, 30 ft. Back of beach.

- 16564. On Sesuvium. Flowers white. Sea beach back of Ipomea
pes caprae.
- 16565. An isolated bush, 10 ft. high; often forming masses
(a mangrove), producing large numbers of erect air roots
from the ground. Muddy ground back of beach.
- 16566. Straggling shrub as much as 2 ft. high. Muddy ground
back of beach.
- 16567. Prostrate fleshy herb; fls. pink. Muddy soil back of
beach.
- 16568. Suffrutescent, up to 5 ft. apparently annual; fls.
yellow. Waste land back of beach.
- 16569. Large bunches, stems erect. Seabeach.
- 16570. Along sea wall, among the stones.
- 16571. Trailing for long distances; some stems upright as
much as 2 ft.; fls. pink. Sandy seabeach.
- 16572. Prostrate bunches; fls. white. Seabeach.
- 16573. Vine on trees back of beach; fls. white.

Georgetown, Promenade Gardens, Oct. 30, 1919.

- 16575. Weed in flower beds.
- 16578. " " " "

Oct. 31. 1919.

- 16582. Perennial; flowers light blue, open in morning. Weed in
flower beds.
- 16583. Weed in flower beds.
- 16584. Annual, fl. light blue. Weed in flower beds.

- 16585. Annual, weed in flower beds.
- 16586. " with stinging hairs weed in flower beds.
- 16587. " ; fls. very pale pink; fruit scarlet. Weed in fl. beds.
- 16588. " ; erect, summit nodding; " " " "
- 16589. " ; fls. white, eye yellowish striped. " " " "
- 16590. " ; yellow; prostrate. " " " "
- 16591. " ; blades more or less marked with purple " " " "
- 16592. " ; erect " " " "
- 16593. " ; flowers pale pink. " " " "
- 16594. " " " " "
- 16595. " ; flowers lavender. " " " "
216596. Perennial herbaceous vine; fls. white tinged with lavender on wings. Weed in fl. bed.

Weeds in Promenade Gardens, Nov. 1, 1919.

- 16600. Annual
- 16601. "
- 16602. " fls. pink.
- 16606. " " yellow; forming prostrate rooting mats.
- 16607. " limb of fls. lavender, tube white.
- 16608. Fls. pale pink.
216609. Annual.
- 16610. "
- 16611. Prostrate
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Georgetown, Botanic Garden. Nov. 3, 1919.

- 16616. Annual weed in beds.
- 16617. Fls. yellow. Along ditches.
- 16618. " blue. In water of ditches.
- 16619. " yellow. " " "

Nov. 4, 1919

- 16621. Along ditch. Called ant-bush.
 - 16622. Lemna. Floating on water of ditch
- Nov. 5, 1919.
- 16623. Annual, fls. yellow. Bank of ditch.

- 16624. 4 ft. tall, fls. white. Weed around dump heap.
- 16625. 2 ft. tall, weed around dump heap.
- 16626. 3 " " , fls. yellow, weed around dump heap.
- 16627. 3 " " " white or very pale yellow. weed around dump heap.
- 16628. 3-4 ft. tall, gregarious; fls. white. Wet place.
- 16629. 5 ft. " , fls. yellow. " "
- 16630. 2 ft. " , Weed along ditch.
- /16631. Annual, fls. blue. Weed along ditch.
- 16632. Damp ground in propagating sheds.
- 16633. fls. white ground in propagating sheds.
- 2-X16634. " blue, weed " " "
- 2-X16635. " " " "
- 2-X16636. foliage red brown, weed in propagating sheds.
- /16637. looks different from common species or Pilea. Weed in propagating sheds.
- 16638. 2 ft. tall. Along ditch.

- 16639. shrub 6 ft.
- 16640. Suffrutescent, 4 ft., leaves sensitive. Along ditch.
- 16641. Along canal.

Georgetown, Vicinity of Peters Hall. Nov. 6, 1919.

- 16642. Weed along tram.
- 16643. 3 ft. tall, fls. yellow. Along canal.
- 16644. Suffrutescent, 3 ft. Along canal.
- 16645. " " " fls. white. Along canal.
- 16646. 3-4 ft. fls. light yellow. " "
- 16647. Herbaceous vine; fls. yellow; fruit light orange, bursting
irregularly; seeds scarlet, mucilaginous. Along canal.
- 16648. Woody vine. Along canal.
- 16649. Suffrutescent herb, fls. white. " "
- 16650. Along canal.
- 16651. " "
- 16652. In water of canal.
- 16653. Herbaceous vine; fls. orange yellow with purple eye. Along
canal.
- 16654. Weed along canal.
- 16655. fls. white. along canal.
- 16656. Shrub, more or less twining at ends of branches; fls.
yellow. Along canal.
- 16657. Weed along canal.
- 16658. " " "
- 16659. Shrubby vine; fls. white. Along canal.

- 16660. Suffrutescent, creeping on the ground in open places;
fls. yellow.
- /16661. Vine, on shrubs; fls. blue-pink. Low ground.
- 16662. Shrub 5-8 ft; fls. red.
- /16663. Vine on shrubs in low ground near sea; fls. yellow.
- 16664. Vine on shrubs in low ground near sea; fls. pink.
- 16664a. " " " " "
- 16665. " " " " "
- 16666. " " " " "

Nov. 8, 1919.

- 16672. 2 ft. tall; umbel large, many-rayed, only a few rays included
in each sheet. Along canal.
- 16673. 4 ft. tall; fls. white. Weed in low ground.
- 16674. Low ground.
- 16677. Along canal near sea.
- 2-X 16678. Small tree or large shrub, 12 ft., fls. bluish. Mud flats
along sea. = 16634
- 16679. Tree 10-20 ft, ^aforming mangroves; mud flats along sea.
- 16680. Annual, 2 ft., fls. white. Weed along canal.
- 16681. Fls. lavender. Weed in field.
- 16682. Prostrate. " " yard.
- 16683. Tree, 10 ft. Low ground near sea.
- 16684. 2 ft. fl. white. Weed along canal.
- 16685. " " "

Georgetown

Nov. 9, 1919.

-16687. Prostrate. Along street.

2-X-16688. " " "

Georgetown, along tram toward Peter's Hall. Nov. 10, 1919.

-16689. Shrub, 3. ft. Low ground.

-16690. Stems rooting, floating in water, leaves and flowers emersed.
In water of canal.

16691. Fungus on sterile grass. Low ground along ditch, with
Panicum pilosum and *P. laxum*.

Vreed-en-Hoop, across the Demerara River from Georgetown,
Nov. 10, 1919.

/ 16692. High climbing herbaceous vine; fls. white. Planted and
escaped. Called Bonny-vis.

-16693. 4-6 ft., leafless below; umbels often only bracts. Along
water ditch.

-16694. Very prickly small tree; fls. bluish. Along brackish inlet.

-16696. Typha. Fertile shoot 5-6 ft. Water of pond. = 16678

-16697. Annual, 3 ft. Weed along Ry. track.

-16698. Herbaceous high-climbing vine; fls. pinkish lavender. Near
pond.

-16699. Weed along Ry. track.

-16700. " " " "

/ 16701. Has stinging hairs. Weed along Ry. track.

- 16702. Low grassy ground.
- 16703. Gravelly soil along Ry. track.
- 16704. Prostrate; fls. blue-indigo.
- 16705. 4 ft.; fls. yellow, Open waste land.
- 16706. Shrub 3-6 ft.; ends of branches more or less twining; tube of corolla white, the limb pink within; upper leaves (next inflorescence) with tendrils. Tidal flats among mangroves etc.
- 16707. Shrub 6 ft.; fls. pale yellow. Tidal flat among mangroves.
- 16708. Shrub 3-6 ft, scrambling; fls. green. Tidal flats.
- 16709. Climbing over shrubs; fls. white. " "
- 16710. 8 ft. Escaped from cult. in waste land.
- 16711. 4 ft. Waste land along Ry.
- 16712. Waste land along Ry.
- 16713. Shrub 2-5 ft., the branches somewhat twining, fls. white. Tidal flats.
- 16714. Fls. red. Weed along Ry. track.
- 16715. Shrub 3-5 ft., fls. yellow. Tidal flats.
- 16716. Fls. yellow. Low ground near sea.
- 16717. 2 ft., fls. yellow. Weed in waste land along Ry.
- 16718. Herbaceous vine, twining on herbs and prostrate trailing; fls. yellow.
- 16719. Waste ground along Ry. track.
- 16720. Weed " " "

Georgetown

Nov. 11, 1919.

- 16723. Grassland at Government Laboratory.

Nov. 12, 1919.

Along Ry, 3-4 $\frac{1}{2}$ miles west of Vreed-en-Hoop, across the Demerara River from Georgetown. All in low ground, a ditch with water on ^{each} ~~both~~ sides of track.

- 16725. Shrub up to 20 ft; partial petioles tend to coil for twining; panicle usually horizontal, the racemes turning upward; fls. white. *See 16803 for pods.*
- 16726. Climbing over bushes, fls. white.
- 16727. " " " " "
- 16728. Shrub 2-5 ft; fls. yellow; pod transversely jointed.
- 16729. " 2-4 ft; fls. yellow, in heads.
- 16730. Climbing over bushes; fls. white and yellow.
- 16731. Fls. pale blue (This goes with a previous no. in fruit).
- 16732. Seems to be annual, 4 ft.; lower part of stem spongy; hairs not stinging (apparently). Growing in water of ditch.
- ~~2-X~~ 16733. Among tall vegetation close to water of ditch.
- 16734. Erect-suffrutescent, 3 ft. Open ground.
- / 16735. Cyperus. " "
- ~~2-X~~ 16736. Climbing over shrubs; fls. pink-purple.
- 16737. " " bushes; fls. yellow.
- 16738. " on tree (*Erythrina*) in fruit only.
- 16739. Tree 30 ft; bark whitish, twigs brittle; flowers salmon-red, on special branches in the top of the tree, a branch bearing usually several of the clusters shown in specimen.
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Parika on the Essequibo River, about 18 miles west of Georgetown;

low ground along Ry. track Nov. 14, 1919.

-16742. Annual, 2 ft. Open ground.

-16743. 2-3 ft. " "

-16744. Moist meadow.

-16745. Annual, weed along track.

-16746. Herbaceous vine climbing on *Andropogon bicornis*; fls. blue.
Moist meadow.

-16747. 3 ft. Along track.

-16748. Moist meadow.

-16749. Annual, 1-2 ft. Weed along track.

-16750. 2-3 ft. " " "

-16751. Moist meadow.

-16752. Annual 1-2 ft. Weed along track.

-16753. " " "

2-16754. In open bog.

-16755. Along " "

-16756. " " "

Mahaica, coast about 20 miles east of Georgetown. Nov. 15, 1919.

-16761. Tree, 40 ft.; fr. oval black. Low ground.

-16762. Shrub, 6 ft.; fls. red. " "

-16763. Suffrutescent, 4 ft.; fls. red. " " near sea.

-16764. Weed in sandy field.

-16765. Along canal.

3-16766. In water of canal. Common in canals and ditches everywhere.

fls.
only

- 2-X 16767. Climbing on shrubs near canal.
- 2-X 16769. " " " " "
- 2-X 16770. " " " " " fruit only.
- 16771. 6 ft.; weed in field.
- 16772. Somewhat woody vine; near canal.
- 16773. 2 ft.; weed in field.
- 16774. " " banana field.
- 16775. Somewhat shrubby, 2-4 ft.; fls. pink. Along canal.
- 16776. Shrub, 6 ft.; fls. red. " "
- 16777. " 3-5 ft.; fls. yellow. Low ground along canal.
- 16778. 2 ft.; fls. white. Along canal.
- 16779. Climbing; fls. yellow. " " (Frequent, usually in
vicinity of houses.
- 16780. Weed along canal.
- 16782. Root spongy; fls. yellow; floating in water of canal.
- 16783. 4-5 ft; flowers pink, throat white with pink specks. Along
canal.
- 16784. Tree, 30 ft. fruit only. Along canal.
- 16785. Shrub, 15 ft; trunk 4 in. diam.; fls. bluish or pale
purple. Along canal.
- 16786. Fls. white; fr. orange. Weed along road.
- 16787. " " "
- 16788. Fr. dark red. " " "
- 16789. Climbing on weeds; fls. yellow. Weed along road.

Georgetown

Nov. 17, 1919.

/ 16790. Along street.

Parika, 18 miles west of Georgetown. Nov. 19, 1919.

- 16793. Shrub, somewhat viney, 6 ft.; fls. yellow. Low ground.
 - 16794. fls. pink; savanna.
 - 16796. Shrub, 4 ft.; fls. pink. Low ground.
 - 16797. Woody vine; fls. pink and white. Low ground. = 16805
 - 16798. Annual; fls. yellow. Savanna.
 - 16799. Straggling in grass. "
 - 16802. Shrub 10-15 ft.; fls. pinkish. Low ground.
 - 16803. Pods of 16725. " "
 - 16804. On trunk and large limbs of tree near sea.
 - 16805. Woody vine. Near sea. = 16797
 - 16806. Thick bulbous base with rhizomes; fls. white. Growing in colonies, muddy slope near sea.
 - 16807. Annual, fls. yellow. Weed along road.
 - 16808. Shrubby up to 12 inches; fls. white. Muddy tidal flat.
 - 316811. Along ditch in savanna.
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New Amsterdam, road south of town. Nov. 21, 1919.

- 16822. Tree, 30 ft.; fls. yellow, fading reddish. Among mangroves.
- 16823. Tree, 30 ft; fr. pink with red specks. Near mangroves by sea.
- / 16824. Vine on mangroves, etc; fls. yellow.
- 16825. Vine; fls. white with nearly black eye. Among grasses etc.

- 16828. Weed in waste place.
-16829. Much branched and tangled. Waste place.
-16830. Bush 2-6 ft. (often larger than this); fls. white. Along
ditch. *see 16860 and seq. for Nov. 25- Dec. 25.*
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Georgetown, along Sea Wall. Dec. 26, 1919.

- 16837. Creeping in grass near seawall.
-16838. Small tree along ditch. Common in open ground back of
sea wall.
-16840. Small tree 15 ft. This mangrove is not common here (beach
at end of sea wall, Kitty village). Mixed with Avicennia,
and Laguncularia.
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Lamaha Stop-off, East Coast water Conservancy. S.E. of

Georgetown. Nov. 25, 1919.

- 2- X16860. Fls. blue. Bank of canal.
-16861. " " "
-16862. Shrub, 4-8 ft. On dike among shrubs.
-16863. " 4-12 ft. Along dike.
-16864. " fls. yellow " "
-16865. Acaulescent. Along bank of canal.
-16866. Along dike.
-16867. Leaves floating; fls. white. In canal.
-16868. " " " " " "
-16869. Floating submerged; fls. yellow. In canal.
-16870. On trunk of tree.

- /16871. Fls. white. On trunk of tree.
- 2- X 16872. Fls. yellow. In marsh [This goes with preceding specimens from Parika cf. 16798.
- 16873. Shrubby, as much as 12 ft., with long virgate wide-spreading branches; fls. yellow. Marsh.
- 2 16874. 6 ft. tall, leafless below; fls. white. Marsh.
- 16875. Shrubby, 6-8 ft. "
- 16876. Fertile pinnae above. Climbing on trees. On dike,
- 16877. Leaves retrorsely scabrous and very cutting. Along edge of canal in woods.
- 16878. Panicle branches & pedicels red. Climbing ^o/_{in} shrubs along dike.
- 2 - X 16879. Woody vine along dike.
- 16880. Climbing on dike.
- 16881. In water of ditch. Stem decumbent, long-rooting, fls. white.
- 16882. Creeping and ascending among grasses near ditch.
- 16883. Tree, 20 ft. On dike.
- 16884. Erect, fls. greenish white. Marsh along canal.
- 16885. Climbing on mucka-mucka. Marsh.
- 16886. Among mucka-mucka. Marsh.
- 16887. In water in marsh.
- 16888. Fls. whitish. "
- 16889. In water in marsh.
- 16890. Marsh
- 16891. Marsh.
- 16892. "

- 16893. Bracts red. On tree on dike.
-16894. Floating in water of marsh.
-16895. Leaves floating submerged; fls. pink or purple. In water of marsh and canal.
-16896. Shrub 10-15 ft.; fls. white, falling in afternoon. Marsh.
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Hoorubia Creek, East Coast water Conservancy, S.E. of Georgetown.

Nov. 26, 1919.

- 16901. 2-4 ft.; fls. white. Marsh.
-16902. Shrub 10 ft., fls. white. Marsh.
-16903. Fls. white; leaves floating, entire. In water of Laluni Creek.
-16904. In marsh, grassy edge of mucka-mucka.
-16905. Vine, climbing on mucka-mucka. In marsh.
-16906. Marsh.
-16907. In large clumps. Marsh.
-16909. Fls. pink. Grassy edge of creek by mucka-mucka, Marsh.
2-X 16910. Fls. blue-pink. Grassy edge of creek, marsh.
-16911. Fruit dark blue.
2 16912. Common name is "mucka-mucka". (Flowers for specimen in fruit from Bot. Gard.)
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"Sandhills," head of Hoorubia Creek, S.E. of Georgetown.

East coast water conservancy, Nov. 26, 1919.

- 2 16913. Shrub. Sandy scrub.
-16914. Vine, " "

- 16915. Straggling herb, 2-3 ft.
- 3 16916. Shrub 6 ft. (fruit) Sandy forest.
- 16917. Woody vine in forest.
- 2 16918. At foot of tree, "
on
- 16919. Parasitic shrub. Sandy scrub.
- 16920. " " " . Inflorescence reddish. Sandy scrub.
- 16921. 2-3 ft. Sandy scrub.
- 16922. Shrub 2-4 ft. fls. yellow. Sandy scrub.
- 16923. Shrub, 4-8 ft; fls. white with pink center. Sandy scrub.
- 16924. " , 8 ft. " "
- 16925. " 4-10 ft; fls. white. " "
- 16926. Climbing on small tree, wet forest.
- 16927. Sandy savanna.
- 16928. Suffrutescent, fls. pink. Sandy savanna.
- 2 - X 16929. " "
- 16930. " "
- 16931. Shrub 4-10 ft. " scrub.
- / 16932. Wet forest
- 16935. Climbing; fr. orange. Sandy scrub.
- / 16936. Wet forest.
- 16937. " "
- 16938. Shrub, 8 ft. Sandy scrub.
- 16939. Wet forest.
- 16941. Erect on damp sand. fls. yellow, Sandy savanna.
- 16942. " "
- 2 - X 16943. " "

- 2-X16944. Sandy savanna.
/16945. " "
-16946. " "
-16947. " "
316948. Epiphytic on tree; fls. white. Wet forest.
-16949. Sandy savanna.
-16950. Small tree, 20 ft. Sandy scrub.
-16951. Wet forest.
-16954. Sandy savanna.
-16955. fls. blue. Sandy savanna.
-16956. fls. pale yellow, bracts scarlet. Sandy savanna.
/16958. Sandy savanna.
/16959. Wet forest.
2-X16960. Sandy savanna.
2-X16961. " "
-16962. fls. white. Sandy savanna.

Canal to east and south of Lamaha. Stop-off East coast water
conservancy as far as high land, S.E. of Georgetown. Nov.
27, 1919.

- 16967. Acaulescent, Open ground on dike, near water of canal.
2-X16968. Shrub, 5 ft; fls. pink-purple. Along dike.
-16969. " 6 ft. along dike.
/16970. fls. white. Marsh.
-16971. Sandy soil, open ground on dike.

- 3 16972. Vine climbing on shrubs; fls. yellow with orange eye.
Along dike at edge of marsh.
- 16975. bracts red. Along dike by wet forest.
- 16976. Shrub 4-8 ft.; fls. white. Marsh.
- 16977. Annual, fls. pinkish. Along dike near water in sandy soil.
- 16978. Vine on shrubs. Along dike.
- 16980. Along sandy dike. (also in marsh)
- 16981. Fls. white with pinkish tinge. Sandy dike.
- 16982. Shrub 3-6 ft; fls. magenta. Marsh.
- 16983. Vine on shrubs, fls. yellow. Marsh.
- 16984. " " " " white. "
- 16985. Shrub 2-3 ft. " magenta. Along dike.
- 16986. 5 ft. Marsh.
- 16987. Climbing on trees in wet forest.
- 16988. " " " " " "
- 16989. fls. yellow. Floor of deep wet forest.
- 16990. Marsh.
- 16991. Shrub, 8 ft. Wet forest.
- 16992. On trees in wet forest.
- 16993. Shrub, 4-8 ft, fls. white. Wet forest.
- 16994. " 5 ft. Wet forest.
- 16995. Marsh.
- 16996. "
- 16997. leaf-blades emersed; flower clusters floating on surface at
a distance; fls. white. Canal.

- 16998. Fls. green in bud, white when fully open. Dike near marsh.
- 16999. Vine, fls. white. On dike near forest.
- 17000. Shrub, 4 ft. fls. white. Marsh.
- 17001. Marsh
- 2 - X17002. Open ground, along dike near water.
- 17003. Marsh.
- 17004. Raised on short stem above the mud; fls. white. Bare wet ground between clumps of sedges in marsh.
- 17005. On bare wet soil, marsh. (goes with 16941).
- /17006. Fls. purple. On wet mud and in shallow water.
- 17007. Fls. yellow. On wet open soil in marsh.
- 17008. " "
- 17009. " "
- 17010. " "

Near Lamaha Stop-off, East Coast Water Conservancy, S. E. of
Georgetown. Nov. 28, 1919.

- 17013. Open ground, near dwelling.
- 17014. 3-5 ft.; fls. red-pink. Along dike near marsh.
- 17015. Open ground on dike,
- 17016. Climbing on shrubs; fls. white. Near marsh.
- 2 - X17017. " " " Dike " "
- 17018. ~~" " " "~~ ; fr. nearly black. Dike near marsh.
- 17019. Open ground near dwelling.
- 3 17020. Climbing and trailing, along dike.
- 17021. Fls. white " "
- 17022. Along dike near water.

? ex.

"Breakfast Benab", East coast water conservancy, Nov. 29, 1919.

- 17023. Succulent, branched, straggling 4-8 ft. Wet copse.
 - 17025. 4 ft. " "
 - 17026. Along ditch, edge of water.
 - 17027. 6 ft, " "
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Penal Settlement, on west side of Essequibo River. Dec. 3, 1919.

- 17029. Marshy open ground.
- 17030. Acaulescent; blades erect, spathes recurved, S-shaped; odor of skunk when fresh. Raphides produced irritation of the hands in handling split portions. Swamp, in or near the water.
- 17031. Large pinnae opposite. Climbing in wet forest.
- 17032. Marshy place in open ground.
- 17033. Bract white; trailing or decumbent-spreading. Floor of sandy damp forest.
- 17035. Open moist sand along road through forest.
- 17036. Fls. yellow. Marsh.
- 17037. Shallow water of marsh.
- 17038. Fls. lilac-white. Shallow water of marsh.
- 17039. Fls. blue. " " " "
- 17040. Fls. pale blue or white with blue streaks. Shallow water or mud of marsh.
- 17041. Fls. white. Marsh.
- 17042. Marsh, shallow water.
- 17043. " " "
- 17044. Blades floating; a single flower at surface of water

the rest of the inflorescence submerged; fls. white. In water.

- 17045. Fls. yellow. Marsh.
- 17046. Wet soil, "
- 17047. Foliage sensitive; fls. white. Marshy field.
- 17048. Fls. yellow. Shallow water of ditch.
- 17049. " pink. Marshy field.
- 17050. " "
- 17051. Suffrutescent, 3-5 ft, looks like an annual; fls. magenta.
Marshy old field.
- / 17052. " " "
- 17053. fls. white. Marshy old field.
- 17054. " " with pink center & tinges on petals. Marshy old
field.
- 17055. fls. white, pink tinged. Marshy old field.
- 17056. " " " " "
- / 17057. Sterile. Along ditch.
- 17058. Vine; fls. blue. Marshy old field.
- 17059. weed in flower bed.
- 17060. Tree, 30 ft. Wet sandy forest.
- 17061. " " " ; fls. pale blue or lilac. Wet sandy forest.
- 17062. Small tree, 10 ft. " " "
- 17063. Tree, 40 ft.; petals white " " "
- 17067. Prostrate. Hard open ground around Colony House.

Dec. 4, 1919.

- 17069. Acaulescent, petiole and peduncle mottled, 5 ft. long, erect.
Wet place in forest.

1900

1901

1902

17070. Wet sandy soil.
17071. Suffrutescent, 1-2 ft; fls. pink. Sandy open ground in forest.
17072. Woody vine, climbing high over trees; fls. red. Wet forest.
17073. Shrub, 5 ft.; fls. white. Wet sandy forest.
17074. Woody vine, high climbing on trees; fls. red. Wet forest.
17075. Open wet sand by road through forest.
- ✓ 17076. Sterile shoots, 7 ft.; fertile from ground at base, axis etc.
and fls. red, the thin petal creamy; fruit ovoid, purple,
nearly black. Wet forest.
- ✓ 17077. Basal blades flat, about 6 ft. long, 2 inches wide; fertile
culm 5-6 feet, with several blades, the lowermost about as
long as the basal. Umbel large, the single one furnishing
all the flowering specimens, an additional fruiting umbel
divided and added. Wet forest.
17078. Climbing on woody vine on wet forest.
17079. Woody vine climbing high over trees; fls. yellow. Wet forest.
17080. Marshy place.

Along Essequibo River, Penal Settlement below.) Dec. 5, 1919.

17084. Shrub, 8 ft. Jungle.
17085. Open sandy ground.
17086. Shrub, 1 ft. erect; specimen cut at surface of ground. Edge
of jungle.
17088. 3 ft. Open ground in pasture.
17089. Tree, 50 ft.; ripe pods taken from ground beneath tree.
Bank of river.

- 17090. Shrub, 4 ft: fls. white. Open ground, bank of river.
- 17091. " or small tree, 15 ft.; fruit nearly black, globose, pulp sweet. Along river bank.
- 17092. Perennial, 2-3 ft. Sandy marsh along river.
- 17093. Straggling shrub 3-4 ft. Only 1 flower, following day got a second flower from same shrub and 2 from another. Fls. wilt in afternoon. Ants busy on them. Sandy soil along river, near water.
- 17094. Open sandy pasture near river.
- 17095. Widely spreading or decumbent; fls. yellow with dark red center. Open sandy pasture near river.
- 17096. Mats; fls. pale blue. Open sandy pasture near river.
- 17097. Prostrate, fls. pink. " " " " "
- 17098. Trailing, with erect branches; fls. white. Sandy beach along river.
- 17099. Wet sand along river bank.
- 17100 Fls. pink. Open hard ground along road by river.
- 17103. Open sandy ground " " " "
- 17106. Wet sandy soil. " " " "
- 17107. Gregarious; in all specimens seen leaves are bladeless. Wet sandy soil by river, in water at high tide.
- 17108. Woody vine, climbing on trees by river.
- 17109. Tree, 20 ft. Jungle near river.
- 17110. " " " "
- 17111. Parasitic on tree by river side. Specimen of host included.

Wet

host 1

Along road north of Penal Settlement on Essequibo River. Dec. 6, 1919.

- 17115. Annual, decumbent-spreading; fls. white. Along ditch near dwelling.

17116. Shrub; fls. lavender. Jungle.

2 - X 17117. Tree or ^vvine unknown; fls. gathered from ground. Jungle.

- 17118. Acaulescent, about 2 ft.; clusters of a dozen leaves; fls. white, tinged with lavender. Swampy ground in forest.

2 - X 17119. Shrub in jungle.

- 17120. " 6 ft. in jungle.

- 17122. Floor of forest.

- 17123. Small tree, 12 ft., fls. salmon-yellow, borne on naked branches below the leaves. Wet forest.

- 17124. In second-growth jungle.

- 17125. Straggling shrub, 1-2 ft. Jungle.

- 17126. Strong canes, 3-4 ft., with large clusters of leaves and an inflorescence at summit; fls. dull red with yellow center. Swamp in forest.

- 17127. Fls. white, woody vine. Jungle.

- 17128. Woody vine, climbing high; fls. lavender. Jungle.

- 17129. Small tree, 30 ft. "

- 17130. Aspect of pineapple; inflorescence about 6 in. long. bracts red. Jungle.

- 17131. As much as 10 ft. tall; fls. light purple. Small clearing in forest.

2 17132. Giant sedge fruit to go with 17077. in forest. " "

- 17133. On trunk of tree.
- /17134. Woody vine; fls. white. Cut-over jungle.
- 17135. Small tree, 25 ft., fr. globose, $1\frac{1}{2}$ in. diam. Jungle.
- 17136. Shrub, 8 ft. "
- 17138. " 2 ft. fls. white. Sandy pasture.
- 17139. Small tree, 20 ft, near river (cf. 17109).

Road along Essequibo river, north of Penal Settlement. Dec. 7, 1919.

- 17140. Copse by river.
- 17141. Climbing on shrubs near river.
- 17142. Woody vine, climbing on shrubs near river.
- 17143. Shrub, 15 ft. woods, " "
- / 17145. " 5 ft. Sandy shore of river.
- 17146. Woody vine or straggling shrub; fls. red with green tips.
Copse by river.
- 2-X 17147. Fls. pale blue. On tidal beach.
- 17148. Weed in pasture.
- 17149. Large shrub, 10 ft.; fls. pale blue or nearly white. By
river.

West of Penal Settlement. Dec. 8, 1919.

- 17150. Shrub, 4 ft. fls. white. Old field.
- 2-X 17151. " 8 ft. Jungle.
- 1 17153. Straggling and trailing on floor of forest.
- 17153 $\frac{1}{2}$ Marshy place in pasture.
- 17155. Shrub, 4 ft. fls. white, petals Jungle.

st.

gnugle

- 17156. Shrub 15 ft. fls. white, Jungle.
- 17157. Small tree fern, trunk 4 ft. (a piece in 1 specimen;
old pieces of petiole, frond of many pinnae 4 ft. long).
Jungle near river.
- 17158. Tree, 40 ft. Jungle near river.
- 17159. Woody vine; fls. suspended on stalk several feet long
(Fls. & pods, no leaves).
- 17160. Fls. yellow. Weed in pasture.
-

Penal Settlement on Essequibo River. Dec. 9, 1919.

- 17164. Lawn of prison grounds.
- 17165. Woody vine, juice milky, fls. white. Wet jungle.
- 17166. " " ; fruit in racemes 1 ft. long. Wet jungle.
- 17167. Prickly shrub, 6 ft.; fls. white. wet place in pasture.
- 17168. Tree, 30 ft., fls. white inside, purple outside; fruit
woody. Wet jungle.
- 17169. Tree 40 ft.; fls. white, pink-tinged outside, along branches
below leaves. Wet jungle.
- 17170. Tree, 10 ft., fls. yellow. Wet pasture.
- 17171. Along dike by river.
-

The Hills Estate, 3 miles south west of Bartica, Dec. 10, 1919
near Mazaruni River.

- 17173. Tree, fls. white. By riverside.
- 17174. Fls. pinkish. Weed in lime grove.
- 17175. Parasite on tree, bank above river.

- 17177. Vine on shrubs, fls. red. Old field.
-17178. Suffrutescent, 5 ft. " "
-17179. Succulent, 6 ft.; fls. pale salmon, bracts red. Old field.
-17180. Vine, somewhat woody; fr. red; climbing on shrubs in " "
-17181. " old field.
-17182. 5 ft. fls. white in old field.
-17183. Vine on shrubs " " "
-17184. Suffrutescent, 4 ft.; the 2 bracts red, central fls. yellowish
in old field.
-17185. 2-3 ft., rays white, in old field.
/ 17186. fls. white. Lime grove.
-

Kijk-Over-al island in Mazaruni River, opposite Kartabo. Dec.
11, 1919.

- 17196. Shrub 2-4 ft., fls. yellow. Coast of Kijk-Over-al
/ 17197. Shrub 4 ft., fls. yellow. " " " "
-

Kartabo, junction of Cuyuni and Mazaruni River. Dec. 11, 1919.

- / 17202. Plant & fls. pure white. On floor of virgin forest, coming
up through dead leaves; probably a root-parasite.
-17203. Tree, 30 ft. fls. white; edge of forest.
-17204. " 40 ft. " " " "
/ 17206. Sterile; the prickly stems creep over the floor of the
forest and send off the slender foliage shoots.
/ 17207. Vine, fls. yellow. Clearing.
/ 17208. Tree by river.

- 17209. by trail near river.
- / 17210. Vine, edge of forest.
- 17212. — Along trail by river bank.
- 17213. Shrub 4-5 ft. fls. white. By trail through forest.
- 17214. Weed 3-6 ft. in clearing.
- 17215. Straggling, 1-3 ft. fls. yellow. Weed in clearing.
- / 17216. Vine on tree by river.
- 17217. fls. white, weed in clearing.
- 17218. Tree, 20 ft.; fruit red. By river.
- 17220. Climbing on tree trunk, in shade near river.
- 17221. On old " " " " " "
- 17222. Tree, 20 ft.; fls. white " " " "
- 2 - X 17223. Climbing in jungle.
- 2 - X 17224. " on trees in jungle.
- / 17225. Epiphytic on shrubs; fls. white. Forest.
- / 17226. Shrub, straggling or vine like. "
- 17227. Along trail. "
- 2 - X 17228. Shrub "
- / 17229. Tree, 12 ft. along trail in "

R
Penal Settlement on Essequibo Road to Freer Camp. Dec. 12, 1919.

- 17230. Acaulescent or trunk creeping; fruit in a close cluster
 at surface of ground, red; fronds 10-15 ft, half being
 petiole, prickly. (Specimen A from one individual, the other
 three from a second; fruits appear to be same, but leaves
 a little different; the entire bunch of fruit goes with A,

the divided ones with other specimens). Forest.

-17231. 4-5 ft. cespitose. "

Penal Settlement, Road to Karrow Creek. Dec. 13, 1919.

/ 17232. Fruit red. Swamp in forest.

-17233. Forest bank of Karrow Creek.

-17234. Succulent; fls. white; fruit dark purple, globose;
climbing on tree trunk in wet forest.

-17235. Swamp in forest by Karrow Creek.

-17236. Tree, 25 ft., fls. whitish. Wet forest/

Penal settlement, road north along Essequibo River. Dec. 14, 1919.

-17237. Tree, 40 ft. Sandy forest (= previous specimen with fruit)

2-X 17239. Vine trailing on bank of river; fls. purple.

-17240. Fls. light purple. Forest by river.

-17242. Woody vine; fls. greenish. " "

-17243. Tree or shrub 8-15 ft.; fls. white by river on tidal flat.

-17244. Prostrate on open sandy ground.

-17247. Fls. white with pink lines. Tidal flat by river.

Bartica, junction of Mazaruni and Essequibo River. Dec. 15, 1919.

-17248. Tree, 30 ft. Low forest.

-17249. Woody vine, climbing on trees; fls. blue-purple. called
"petraea". Low forest.

17251. 2-3 ft., fls. white. Forest in the hills.
17252. Vine, climbing on trees; fls. red. Forest in the hills.
17254. Acaulescent; fronds 4 ft. long. (One specimen with base of petiole; all specimens from one frond). Upland forest.
17255. Climbing to height of 30 ft. Upland forest.
17256. Clambering over shrubs and trees, very sticky and cutting; festoons over vegetation along edge of forest, road or clearing, forming a complete covering. Called razor-grass. Lowland forest.
17257. Forming masses on floor of forest.
17258. Tree, 12 ft. fls. yellow. Lowland forest.
17259. Climbing on trees. Lowland forest.
17262. " " " and shrubs along road; fls. pinkish purple. Bartica.
17263. Along ditch near river.
- 2-X 17266. " "
- 2 17267. On river bank.

Vicinity of Bartica. Hills Estate to Kalacoon. Dec. 16, 1919.

17270. Small tree, 10 ft. Old field.
17271. 6-8 ft.; fls. white. Old field near Kalacoon.
17272. 3-5 ft. fls. bright pink. Low place in old field.

----- see 16837-40 for Dec. 26

Rockstone on Essequibo R, 6° North. lat. Dec. 31, 1919.

- 2 17286. Climbing 15 ft. (only 3 spikes seen on the single plant.)
Wet forest.

- 17288. On a low shrub; panicle 1 ft. long; specimens show only a portion of panicle. Sandy scrub.
- 17289. Straggling shrub, more or less climbing or creeping. Sandy scrub.
- 17290. Woody vine. Sandy scrub.
- 17291. 4 ft. fls. pale blue and purple. Near old camp in sandy scrub.
- 17292. Woody vine; fls. pink-purple, in sandy scrub.
- 17293. Shrub 1-2 ft.; fls. pale pink, nearly white, in sandy scrub.
- 17294. Pure white sand, sandy scrub.
- 17295. 6 ft; fls. white, sandy scrub.
- 17296. Woody vine, fls. white, sandy scrub.
- 17297. Shrub, 6 ft. fls. yellow, sandy scrub.
- 17298. Woody vine, fls. white, sandy scrub.
- 17300. Small tree, 15 ft., single bare, erect trunk, 2-3 inches diam., fragile; crown of leaves large; terminal panicle 2-3 ft.; fls. yellow-green. (Specimen show single branches of panicle). Sandy scrub.
- 17301. Terrestrial, 1-several bulbs with 1-2 leaf shoots; panicle from base, 2-4 ft. fls. yellow; bulb prickly, the midrib of old leaf-base forming the prickle. Sandy scrub.
- 17302. Straggling shrub, 3-8 ft.; fls. yellow. Sandy scrub.
- 17303. " "
- 17304. Tree or shrub, up to 20-30 ft., fls. white; common in sandy scrub.
- 17305. Tree 20-30 ft. Sandy scrub.

- 17306. Tree 20 ft. Sandy scrub.
- 17307. Straggling or upright shrub, up to 10 ft.; fls. white, very fugaceous. Common in sandy scrub.
- 17308. Shrub 6-8 ft.; fls. red, very showy. Sandy forest.
- 17309. Woody vine. Sandy scrub.
- 17310. Tree, 20 ft., much frequented by ants, fls. green. Sandy scrub.
- 17311. Vine; fls. white. " "
- 17312. Weed along Ry. in sand. " "
-

Rockstone, near Essequibo River, 6° North. Jan. 1, 1920.

- 17316. 10 ft. fls. pink. Along river bank.
- /17317. Climbing in wet forest.
- 17318. " " " "
- 17319. White sand along Ry.
- 17320. Wet forest.
- 17321. Fls. white, bracts pale brown. Wet forest, along railway.
- 17323. 1-2 ft., blades purple or green beneath. Wet forest along railway.
- 17324. Stem woody, creeping. " " "
- 17325. Tree, 30 ft.; fls. and panicle branches yellow. Wet forest.
- 17326. Vine, fls. red. Along Ry. Wet forest.
- 17329. Shrub 3 ft.; fls. & bracts purple. Along Ry. Wet forest.
- 2-X -17330. Woody vine; fls. white with dark eye. Along Ry. Wet forest.
-

Tumatumari, on Potaro River, 5° 20' N. lat. Jan. 3, 1920.

- 17337. Blades with pink spots. Open shade, near garden, probably escaped.

Trail from Tumatumari on Potaro River, southward to
Washerwoman Falls (5° 20' N lat.)

- 17346. Tall tree or vine in wet virgin forest (flowers gathered from ground, tree not determined).
- 17347. 4-6 ft. Wet forest.
- 17348. Shrub 6-8 ft; fls. yellow, waxy, whitish at tip; mostly single stems, flowers in axils of leaves and down the stem to the ground. Wet forest on hill.
- 17349. Plant white; floor of virgin forest among leaves.
- 17350. " " " " " " "
- 17351. Plant white " " " " " "
- 17353. Along trail in forest.
- 17354. Shrub, 6-10 ft; fls. white. Virgin forest.
- 3-17356. " "
- 17357. Small tree, 30 ft. " "
- 17358. Shrub, 10 ft. " "
- 17359. " "
- 17360. Weed along trail. " "
- 17361. " "
- 17362. " "
-

Tumatumari on Potaro River 5° 20' N. lat. Jan. 4, 1920.

- 17365. Small tree, 30 ft. Forest on hill.
- 17366. 2 ft. fls. scarlet. Partial shade along river near dwelling.
- 17367. Weed in garden.
- 17368. Tree, 30 ft. Copse near river.
- 17369. fls. white. Low moist ground along trail in forest near river.

Trail from Tumatumari on Potaro River, Jan. 5, 1920,
to Washerwoman Falls 5° 20' N. lat.

- 17370. Leaves and fruit from ground under tall tree in forest.
 - 17371. Shrub, 2-3 ft; fls. white. Forest, along stream.
 - 17372. 2 ft. " " " " "
 - 17373. Gregarious, large bunches; fls. yellow. Low open ground in forest by stream.
 - 17374. Climbing in forest.
 - 17375. 6 ft., mostly single stems, 2 or 3 from a common crown; fls. yellow. Forest by brook.
 - 17377. Along trail in forest.
 - 17378. Climbing on lower part of tree trunk, forest.
 - 17379. Along trail in forest.
 - 17380. Small tree, 20 ft. in forest.
 - 17381. Along brook in forest, mostly in shallow water.
 - 17382. Shrub, 8-10 ft.; fls. white. Along trail in forest.
 - 17383. Along trail in forest, probably an old clearing.
-

Potaro, 10 miles south of Potaro Landing 5° 10' north lat.

59° W. long.

Jan. 7, 1920.

2 17384. Small tree, 15 ft.; fls. pink. Forest near stream.

2 17385. " " "

-17386. Acaulescent, fls. white. Floor of forest along trail.

/ 17387. Shrub 8 ft. fls. yellowish. Forest near stream.

-17388. Small tree, 8 ft. fls. white. Boggy place in clearing.

-17389. Tree, 30 ft., fls. dull yellowish. Forest.

-17390. Climbing along clay cliff.

Nos. 17391-17411 on new land made by dredge.

/ 17391. On branches of fallen tree.

/ 17392. " " " " "

/ 17393. weed in yard.

/ 17394. On branches of fallen tree.

-17395. " " " " "

2 17396. " " " " "

-17397. Vine, fls. yellow, mottled with dull brown.

-17398. 5 ft.

-17399. weed in clearing.

/ 17400. " " "

-17401. Succulent creeping vine; fls. white, tinged with pink;
fruit black.

-17402. Stem (with leaves) spiral, succulent; fls. and bracts red,
on separate leafless stem, 2-5 ft.

-17403. Weed in clearing.

-17404. 2-3 ft.; fls. white, bract and pedicels red.

-17405. Vine; fls. blue.

-17406. Tree, 40 ft.; fls. yellowish, greenish at first. Forest.

Rockstone on Essequibo River, 6° North lat. Jan. 8, 1920.

-17412. Tree 30 ft.; fls. white. Along river, overhanging water.

West bank of Demerara River, opposite Akyma 5° 9' North
lat. Jan. 9, 1920.

-17414. Vine, fl. yellow, much visited by ants. Hillside.

-17415. Tree, 20 ft. Hillside, in clearing.

-17417. Along brook.

-17418. Shrub, 8 ft. Shady hillside, clearing.

-17419. " or small tree, 10-20 ft.; fls. scarlet. Hillside.

-17420. 10 ft. Open shade, hillside.

-17422. Tree, 20 ft. Clearing on hillside.

-17425. Straggling shrub, 5-6 ft., fls. white. Open woods (clearing)
Hillside.

-17426. Vine, fls. white. Open woods (clearing). Hillside.

-17428. Wet clearing.

/ 17432. " woods.

East bank of Demerara R. Akyma. 5° 9' North lat. Jan. 10, 1920.

-17440. Wet soil near river.

-17441. fls. white. Creeping over new soil. Bauxite mine.

- 17442. New soil, Bauxite mine.
- 17443. Creeping over new soil, Bauxite mine.
- 17444. Climbing on bushes, wet soil near river.
- 17445. Straggling shrub; fls. white. Wet soil near river.
- 17448. Prostrate; fls. blue. Wet forest.
- 17449. On trunk of fallen tree. " "
- 17450. Tree, 30 ft. fls. yellow. " "
- 17452. 6 ft. " "
- 17453. Blades wider than in 17452, bracts shorter and wider. Wet forest.

Mackenzie on the Demerara R. 6° North Jan. 11, 1920.

- 17455. Weed in moist grassland.
- 17456. " " " "

Morawhanna, Northwestern District, 8° 15' North, 59° 45' West. Jan. 14, 1920.

- 17478. On trunk of tree near dwelling.
- 17481. Climbing over shrubs, near dwelling (probably escaped from cult.)
- 17482. Tree, 20 ft., along shore, back of mangroves.
- 17484. Fls. yellow; weed in field.
- 17485. Vine on tree; fls. with yellow tube and white limb.
- 17486. Tree, 20 ft. Along Barima River.
- 17487. Vine; fls. purple. Along Barima River.

-17488. 5-7 ft. back of mangroves. Along Barima River.

-17489. Climbing high on trees back of mangroves, fls. red.

2 - X 17491. Fls. red-pink; tree. " " "

-17492. On base of tree near mangroves.

-17494. 4-5 ft. tall; 3-fid, the outer two again 2-fid; (only part in each specimen). Back of mangroves.

-17495. Vine " " "

-17496. fls. purple. Climbing " " "

-17498. " salmon-red. " " "

3 17499. Vine, fls. red. " " "

-17500. " " yellow with orange center. Back of mangroves.

-17501. Shrub, 12 ft. Along Barima River.

-17502. Tree, 25 ft. near mangroves.

-17503. " 20 ft. " " "

-17504. Climbing back of mangroves.

-17507. fls. white; 5-6 ft. near mangroves.

-17508. " red. Among mangroves.

-17509. Vine near mangroves.

-17510. " " "

-17511. " " "

-17513. Creeping and climbing. Dike of marsh.

-17514. Straggling shrub; fls. red-pink. In mangroves.

-17515. Vine near mangroves.

-17516. Tree 30 by mangroves.

-17517. Tree, 20, ft. " "

- | | | |
|--|---|---|
| -17519. Tree 20 ft. By mangroves. | | |
| -17520. Shrub, 6 ft; fls. yellow, inflorescence red. By mangroves. | | |
| -17521. Tree 30 ft. | " | " |
| -17522. Vine | " | " |
| -17523. On tree. | " | " |
| -17524. "Crabwood" tree, 15 ft. | " | " |
| 2 17525. Shrub or tree 10-15 ft. fls. red. | " | " |
| -17526. Climbing on tree. | " | " |
| -17527. Tree. | " | " |
| -17528. " | " | " |
| -17529. Large shrub, 6-12 ft. | " | " |
| -17530. Tree, 30 ft. | " | " |
| -17531. Tree | " | " |
| -17532. " , 30 ft. | " | " |
| -17533. Vine | " | " |
| -17534. Shrub, 8 ft. | " | " |
| -17535. " 6 ft., along ditch | " | " |
| -17536. " " " " | " | " |
| -17537. Tree, 25 ft. | " | " |
| -17538. " | " | " |
| -17539. " 30 ft. | " | " |

Issarora on Aruka R. 8° 10' North. 59° 50' W. Jan. 16, 1920.

- 17540. 5 ft. Clearing.
- 17541. Tree, 30 ft.; pedicels red; Hill forest.
- / 17543. Said to be fish-poison. Clearing on hill.

- 17544. Shrub 4-6 ft. Clearing on hill.
- 17545. Vine, fls. white " " "
- 17546. " " yellowish, limb nearly white. Clearing on hill.
- 17549. Rays pink. " " "
- 17550. Tree, 30 ft. Hill forest.
- 17551. Vine, fls. yellow, clearing on hill.
- 17552. In forest and clearing on hill.
- 17556. Small tree or straggling shrub, 15 ft. Forest on hill.

Jan. 17, 1920.

- 17559. Wet forest.
- 17560. Tree, 30 ft. Wet forest.
- 17561. Vine, fls. yellow, with orange center. Wet forest.
- 17563. Tree, 30 ft. " "
- 17564. Shrub, 2-5 ft.; fls. red, edge of wet forest.
- 17565. Weed in low ground.
- 17566. 10-15 ft.; blades 3-5 ft. long; inflorescence red, on short stalks; cups full of water. Wet forest.
- 17563. Tree, 30 ft. " "
- 17564. Shrub, 2-5 ft.; fls. red, edge of wet forest.
- 17565. Weed in low ground, edge of wet forest.
- 17566. 10-15 ft.; blades 3-5 ft. long; inflorescence red, on short stalks; cups full of water. Wet forest.
- 17569. Terrestrial, several bulbs or small tubers. Wet field.

- 17570. Spathe nearly flat, spreading, white above, green below;
spadix white. Swamp.
- 17571. Tree, 20 ft., fls. pink. Wet forest.
- 17572. " " " " "
- 17573. " 30 " ; fruit scarlet, obovoid. Wet forest.
- 17574. " 20 " ; " dark purple, elliptic. Wet forest.
- / 17575. Shrub, 10 ft.; wet forest.
- 17576. Vine. " "
- 17578. Small tree, 10 ft. wet forest.
- 2 17579. " " 10 ft. " "
- 17580. 2-3 ft.; fruit scarlet " "
- 17581. 5 ft.. along brook.
- 17582. Stinging hairs fierce. Edge of forest on hill.
- 17584. Wet field
- / 17586. Straggling, 4 ft. Wet forest.

Portage between Aruau and Yarikita Rivers, 8° N. 59° 55'

West. Jan. 17, 1920.

- 17591. On tree trunk in forest.
- 17592. Shrub 3-5 ft. " "
- / 17593. On tree trunk. " "
- 17595. Vine climbing on lower part of tree trunk or creeping
on ground; fls. white.
- / 17596. Shrub 3-5 ft., fls. scarlet (collected before but this a
larger specimen).

- 17597. Creeping in open shady ground along trail.
- 17598. Creeping or climbing on branches of shrub.
- / 17599. On tree trunk.
- / 17600 Leaf (lost) elliptic. Moist ground.
- 17601. Creeping or climbing vine; fls. yellow with brown spots
or mottlings.

Yarikita River and at Yarikita. Police Station at mouth of
Yarikita. (A few collections made on Venezuelan side of Ama-
kura River as noted) 8° 2' N. 60° West. Jan. 17-18, 1920.

- 17602. Climbing on trees at Y Police Sta.
- 17603. Fls. blue, round leaves floating, in Amakura R.
- 17604. Climbing over weeds in clearing; fls. yellow.
- 17605. On overhanging dead tree, along Amakura R.
- 17606. Shrub 4-6 ft. fls. white. Forest.
- 17607. 6 ft. fls. white; fish poison, the leaves used. Clearing
at Indian settlement.
- 17608. Weed in clearing.
- 17609. " " "
- 17611. Shrubby 5-8 ft. fls. white, weed in clearing.
- / 17612. Tree along Amakura river.
- 17613. " " " "
- / 17614. " " " "
- 17615. " " " "
- 17616. " " " "
- 17617. Vine, climbing high along Amakura R. fls. purple or magenta
- 17618. Tree along Amakura R. Venezuelan side.
- 17619. " " " " " "

- 17620. In Amakura R.
- 17621. Tree along Amakura R.; fruit the size, shape and appearance of onions, white and shining; dried brown (separate pkg.)
- 17622. Tree, fls. white; along Amakura R. Venezuelan side.
- 17624. Shrub, 10 ft. Forest.
- 2 17625. On overhanging tree along Amakura R. (This looks like mixture but all growing together).
- / 17626. On overhanging dead tree along Amakura R.
- / 17627. " " " " " " "
- 2 17628. " " " " " " "
- / 17629. " " " " " " "
- / 17630. " " " " " " "
- 17631. Fr. scarlet; 4 specimens from 1 panicle. On dead tree along Amakura R.
- 17632. 4 specimens from 1 panicle on dead tree along Amakura R.
- 17633. " " " " " " " " " "
- 17634. Fruit dehiscent; tree along Amakura R.
- 17635. " " " "
- / 17636. On overhanging tree, along Amakura R.
- / 17637. " " " " " "
- 17638. Tree " " "
- 17639. On overhanging tree along Amakura R.
- 17640. Shrub along Amakura R.
- 17641. Tree " " "
- / 17642. Vine on overhanging tree, along Amakura R.
pods pendent.

- 17643. On overhanging tree along Amakura R.
- | 17644. Fls. pink. On overhanging tree along Amakura R.
- | 17645. " " " " " " "
- 2 17646. " " " " " " "
- 17648. Water hyacinth, fls. blue; colonies floating in Yarikita R.
- 17649. Tree along Yarikita R.
- 17650. Climbing vine along Yarikita R.
- | 17651. Tree " " "
- 17652. On protruding roots or tussocks along Yarikita R.
- 2 17653. " " "
- 17654. In water " " "
- 17655. Tree " " "
- 17656. Common along Yarikita R. I could not determine (from
boat) whether this was a vine or a tree with long pendent
branches. Branches hanging, blades conspicuously distichous,
the inflorescence hanging at end. Some of sterile branches
produced long whip-like dangling ends with different leaves
as shown in specimens.
- 17657. Tree along Y river.
- 3 17658. Fish poison. Clearing.
- 17659. Tree along Y river.
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